

DOTTED MICRO-ARRAY DATA EXTRACTION METHOD

ABSTRACT OF THE DISCLOSURE

5 An automated method for identifying the precise location of each sub-array
and dot of a micro-array is provided. The sub-arrays of the micro-array are located using a
template sub-array. The estimated location of each sub-array is estimated according to the
expected physical dimension of the sub-array. A search of each sub-array is conducted for
the dots of each sub-array. A constraining shape mask is constructed, and a segmentation
method is applied to detect the location of each dot within the collection of pixels. The
10 constraining shape mask is applied to each detected dot, limiting the boundary of and
precisely identifying the location of each dot.

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